

## CLAIMS

1.-6. (Canceled)

7. (Previously presented) A call control system, comprising:

network means including first and second switch means, the first switch means configured to support a multi-link connection with an originating means, where the first switch means requests a connection by sending a set-up message means responsive to a request means from the originating means, where the set-up message means identifies the originating means and a terminating means;

server means coupled to the second switch means to support a multi-link connection with the terminating means, the server means having multiple device means, each device means being coupled to the second switch means through a corresponding transmission means; and

routing means coupled to the network means to store a data entry means identifying the originating means as a potential source of a multi-link connection means, the data entry means being available once the originating means has completed a first link with the terminating means through a selected device means, the routing means searches for the data entry means for the originating means responsive to each subsequent request means and if the data entry is found, directs routing of all subsequent communication links from the originating means to the terminating means using the selected device means.

8. (Previously presented) The system of claim 7

where the data entry means identifies a number of links for the multi-link connection with the originating means; and

where the routing means reserves timeslots on the corresponding transmission means serving the selected device means coupled to the terminating means.

9. (Previously presented) The system of claim 8

where the routing means reserves the timeslots on the corresponding transmission means by transmitting a common channel signaling message means to the server means.

10. (Previously presented) The system of claim 9

where the server means reserves the timeslots on the corresponding transmission means responsive to the common channel signaling message by blocking termination of a connection other than the multi-link connection with the originating means when a number of available timeslots not used for the multi-link connection with the originating means is less than or equal to the timeslots.

11. (Previously presented) The system of claim 8

where the routing means selects a device means having the timeslots available on a corresponding transmission means as the selected device means to service the multi-link connection with the originating means.

12. (Previously presented) The system of claim 7

where the server means responsive to detecting multi-link protocol data on the first link, transmits a message means to the routing means identifying the originating means as a source of the first link; and

where the routing means stores the data entry means identifying the originating means as a potential source of the multi-link connection with the originating means responsive to the set-up message means.

13. (Previously presented) The system of claim 7

where the routing means stores the data entry means identifying the originating means as a potential source of the multi-link connection responsive to detecting more than one simultaneously active connections from the originating means to the terminating means.

14. (Previously presented) The system of claim 7

where the routing means directs routing of all connections from the originating means to the terminating means through the selected device means by transmitting a common channel signaling message means to the second switch means that identifies the transmission means corresponding to the selected device means.

15. (Previously presented) The system of claim 7

where the routing means directs routing of all connections from the originating means to the terminating means through the selected device means by transmitting a message means

to the server means that identifies the originating means as a source of the multi-link connections with the originating means; and

where the server means blocks any subsequent communication link set-up request means for the originating means to the terminating means responsive to the message means that identifies the originating means a source of multi-link connections.

16. (Previously presented) The system of claim 7

where the data entry means identifies connections originating from any one of a set of originating phone numbers as a link in the multi-link connection with the originating client.

17. (Previously presented) The system of claim 7

where the routing means is integrated into the first switch means.

18. (Previously presented) The system of claim 7

where the routing means is integrated into the second switch means.

19. (Previously presented) The system of claim 7

where the routing means is a signal transfer means in the network means.

20. (Previously presented) A method for conducting a multi-link session, comprising:

receiving a set up message from a source client, the set up message requesting establishment of a first communication link between the source client and a termination client;

detecting a request for a second communication link from the source client;

accessing a database to retrieve connection characteristic information relating to the first communication link after ending the first communication link and before ending the second communication link; and

routing the second communication link responsive to the connection characteristic information.

21. (Previously presented) The method of claim 20

where receiving the set up message includes receiving a set up message requesting establishment of a first communication link between the source client and the termination client through a terminating device; and

where routing the second communication link is through the terminating device responsive to the connection characteristic information.

22. (Previously presented) The method of claim 21  
where the first communication link is a multi-link point-to-point connection;  
where the connection characteristic information is a multi-link point-to-point indicator; and  
where routing the second communication link includes:  
identifying the terminating device where a first PPP session of the first communication link resides; and  
routing the second communication link to the terminating device responsive to the request for the second communication link.

23. (Currently Amended) The method of claim 2021 comprising receiving a signaling channel message requesting connection on a transmission facility serving the terminating device.

24. (Previously presented) The method of claim 20 comprising blocking connection requests for the second communication link on any transmission facility that does not directly serve the terminating device.